

 شركة طرق الرياض للمقاولات RIYADH ROADS CONTRACTING CO. MINISTRY OF HOUSING	 وزارة الإسكان MINISTRY OF HOUSING	 مكتب رمك للاستشارات الهندسية Office Ramak For Engineering Consultancy تصميم - إشراف - تخطيط عمراني - إدارة مشاريع التواصل : مدير المشاريع : 0544714479 الإدارة : 0566157166 info@ramakcompany.com
Works Inspection Request - WIR		
MIR Serial Number:	اسفلت طبقة ثانية	طلب تسليم
Date:	٢٠٢٥/٠٩/١١	
Location:	جدة	
Project Title:	مشروع تلال الغروب	
Consultant:	مكتب رمك للاستشارات الهندسية	
Contractor:	شركة طرق الرياض للمقاولات	
Part A: By the Contractor.		
Attachments (tick as appropriate)		
☒ Sketch attached to show the location(s) مرفق تخطيط الموقع	☐ Inspection Check list قائمة التفتيش	☐ Surveyor Field Sheet (if any) سجل استلام الأعمال المساحية
☐ Approved Shop Drawing الرسومات التنفيذية المعتمدة	☐ Test Reports (if any) تقارير اختبارات (إن وجدت)	☐ Others (state) أخرى
Discipline:	☐ Civil إنشائي	☐ Architectural معماري
	☐ Mechanical ميكانيكا	☐ Electrical كهرباء
	☐ Other (state) أخرى	
Description of Works to be inspected and / or tested:		
اسفلت طبقة ثانية شارع 01 بلوك 03		
Works Quantity:		
We certify that these works has been executed in accordance with the Contract Specifications and Approved Drawings نشهد بأن الأعمال المذكورة أعلاه نفذت حسب مواصفات العقد وحسب المخططات المعتمدة		
Name:	Signature:	Date:
الاسم:	التوقيع:	التاريخ: 11/09/2025
Part B: By the Consultant:		
Site Inspector's Comments:		
Name:	Signature:	Date:
الاسم:	التوقيع:	التاريخ:
Witnessed Site Test Results (if any):		
نتائج اختبارات الموقع (إن وجدت)		☒ Passed مقبول
		☐ Failed مرفوض
		☐ N/A لا يوجد
Resident Engineer Final Comments & Decision:		
☒ Approved معتمد	☐ Approved with Comments يعتمد بملاحظات	☐ Comply Comments and Resubmit معالجة الملاحظات وإعادة التقديم
☐ Rejected مرفوض		
Name:	Signature:	Date:
الاسم:	التوقيع:	التاريخ:
Acceptance does not relieve the contractor from his responsibility and liability concerning compliance with the contract requirement. إن هذه الموافقة لا تحفي الممول من مسؤولياته تجاه مطابقة متطلبات العقد		

Client	شركة طرق الرياض للمقاولات	Report No.	240463.120
Project	مشروع البنية التحتية - مخطط تلال الغروب	Sampling Date	11-9-2025
Location	جدة - حي الامير فواز	Sample by	Ahmed
Sample Description	BITUMINOUS WEARING COURSE LAYER	Report Date	14-9-2025
Station	Block 3 - Road 1 - Sta. (0+300 to 0+262.92)	Tested By	Saddam

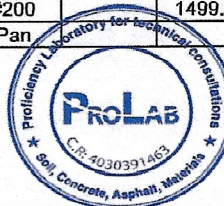
Superpave Mix Design Analysis

Bulk Specific Gravity of Compacted Specimen & Volumetric Properties							
Specimen I.D.	Ndes			Nmax			Design Criteria
	1	2	Ave.	1	2	Ave.	
a. Weight in air, dry (gm)	4801.2	4803.4		4751.2	4742.8		
b. Weight in air, SSD (gm)	4830.2	4830.6		4781.3	4760.3		
c. Weight in water, (gm)	2869.3	2868.8		2866.3	2848.2		
d. Volume, (cc)	1960.9	1961.8		1915.0	1912.1		
e. Specific Gravity (Gmb) (a/d)	2.448	2.448	2.448	2.481	2.480	2.481	
Height @ Nini	132.1	130.6	131.4	129.6	131.2	130.4	
Height @ Ndes	114.3	116.3	115.3	109.3	111.5	110.4	
Height @ Nmax	—	—	—	109.3	111.5	110.4	
% Gmm @ Nini	82.6	85.0	83.8	—	—	—	89 MAX
% Gmm @ Ndes	95.5	95.5	95.5	—	—	—	96±2.0
% Gmm @ Nmax	—	—	—	96.7	96.7	96.7	98 MAX
Air Voids %	4.5	4.5	4.5	3.3	3.3	3.3	2.5 -5.5%
Voids in Mineral Aggregate (VMA) %	15.9	15.9	15.9	—	—	—	14min-16max
Voids Filled (VF) %	71.6	71.6	71.6	—	—	—	65 - 75
Dust Proportion:	0.98						0.80 - 1.60

Maximum Theoretical Specific Gravity (Gmm)				Mix properties	
Specimen I.D.	1	2	3	Gb =	1.026
a. Net weight of loose mix (gm)	1824.6			Gsb =	2.771
b. Net weight of flask & water (gm)	9353.0			Ps =	95.166
c. Net weight of flask, loose mix & water	10466.1			Gse =	2.78
d. Maximum Theoretical Specific Gravity, Gmm (A/(A+B-C))	2.564			Pba =	0.07
e. Average Gmm	2.564			Pbc =	4.77

			Total weight of Agg: 1572.9		Sieve analysis			
Extraction & Gradation			Sieve Size	Weight Retained gm	Percent Passing	JMF Limit	Ave.	
			1-1/2"	0		100.0	100.0	100.0
			1"	0		100.0	100	100.0
			3/4"	0		100.0	100	100.0
Asphalt Content	1	2	1/2"	114.8	92.7	90 - 98	92.7	
a. Wt of sample before test, gm	1652.8		3/8"	335.9	78.6	74 - 82	78.6	
b. Wt of sample after test, gm.	1571.7		#4	691.3	56.0	50 - 60	56.0	
c. Wt of filter before test, gm	21.3		#8	952.9	39.4	32 - 42	39.4	
d. Wt of filter after test, gm	22.5		#16	1162.5	26.1	23 -31	26.1	
e. Wt of sample in filter (c-d), gm	1.2		#30	1202.5	19.7	10 - 24	19.7	
f. Wt of total agg. (b+e) gm	1572.9		#50	1338.7	14.9	10 - 18	14.9	
g. Wt of Bitumen, (a-f) gm	79.9		#100	1402.5	10.8	7 - 11	10.8	
h. Percent AC (g/a x 100), %	4.83		#200	1499.3	4.7	3.5 - 6.5	4.7	
i. Average Asphalt Content, %	4.83		Pan					
j. Optimum asphalt Binder content	5.0% ± 0.4							

Lab. Tech.
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Lab. Eng.
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Client	شركة طرق الرياض للمقاولات	Report No.	240463.121
Project	مشروع البنية التحتية - مخطط تلال الغروب	Sampling Date	17-9-2025
Location	جدة - حي الامير فواز	Sample by	Ahmed
Sample Description	BITUMINOUS WEARING COURSE LAYER	Report Date	18-9-2025
Station	Block 3 - Road 1 - Sta. (0+300 to 0+262.92)	Tested By	Saddam

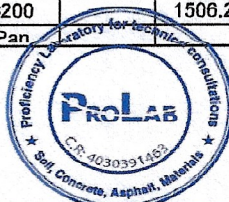
Superpave Mix Design Analysis

Bulk Specific Gravity of Compacted Specimen & Volumetric Properties							
Specimen I.D.	Ndes			Nmax			Design Criteria
	1	2	Ave.	1	2	Ave.	
a. Weight in air, dry (gm)	4703.1	4712.5		4725.1	4722.4		
b. Weight in air, SSD (gm)	4728.1	4728.4		4748.3	4742.1		
c. Weight in water, (gm)	2818.1	2818.4		2841.5	2834.2		
d. Volume, (cc)	1910.0	1910.0		1906.8	1907.9		
e. Specific Gravity (Gmb) (a/d)	2.462	2.467	2.465	2.478	2.475	2.477	
Height @ Nini	128.2	128.7	128.5	127.5	126.4	127.0	
Height @ Ndes	111.3	111.8	111.6	107.6	106.8	107.2	
Height @ Nmax	—	—	—	107.6	106.8	107.2	
% Gmm @ Nini	83.2	83.4	83.3	—	—	—	89 MAX
% Gmm @ Ndes	95.8	96.0	95.9	—	—	—	96±2.0
% Gmm @ Nmax	—	—	—	96.4	96.3	96.4	98 MAX
Air Voids %	4.2	4.0	4.1	3.6	3.7	3.6	2.5 -5.5%
Voids in Mineral Aggregate (VMA) %	15.8	15.6	15.7	—	—	—	14min-16max
Voids Filled (VF) %	73.4	74.3	73.9	—	—	—	65 - 75
Dust Proportion:	1.02						0.80 - 1.60

Maximum Theoretical Specific Gravity (Gmm)				Mix properties	
Specimen I.D.	1	2	3	Gb =	1.026
a. Net weight of loose mix (gm)	1832.4			Gsb =	2.771
b. Net weight of flask & water (gm)	9353.0			Ps =	94.760
c. Net weight of flask, loose mix & water	10472.5			Gse =	2.80
d. Maximum Theoretical Specific Gravity, Gmm (A/(A+B-C))	2.570			Pba =	0.43
e. Average Gmm	2.570			Pbe =	4.83

Extraction & Gradation			Total weight of Agg: 1584.0		Sieve analysis		
			Sieve Size	Weight Retained gm	Percent Passing	JMF Limit	Ave.
			1-1/2"	0	100.0	100.0	100.0
			1"	0	100.0	100	100.0
			3/4"	0	100.0	100	100.0
Asphalt Content	1	2	1/2"	98.2	93.8	90 - 98	93.8
a. Wt of sample before test, gm	1671.6		3/8"	315.8	80.1	74 - 82	80.1
b. Wt of sample after test, gm.	1583.7		#4	820.8	48.2	50 - 60	48.2
c. Wt of filter before test, gm	21.8		#8	954.6	39.7	32 - 42	39.7
d. Wt of filter after test, gm	22.1		#16	1119.4	29.3	23 -31	29.3
e. Wt of sample in filter (c-d), gm	0.3		#30	1237.6	21.9	16 - 24	21.9
f. Wt of total agg. (b+e) gm	1584.0		#50	1325.4	16.3	10 - 18	16.3
g. Wt of Bitumen, (a-f) gm	87.6		#100	1452.3	8.3	7 - 11	8.3
h. Percent AC (g/a x 100), %	5.24		#200	1506.2	4.9	3.5 - 6.5	4.9
i. Average Asphalt Content, %	5.24		Pan				
j. Optimum asphalt Binder content	5.0% ± 0.4						

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